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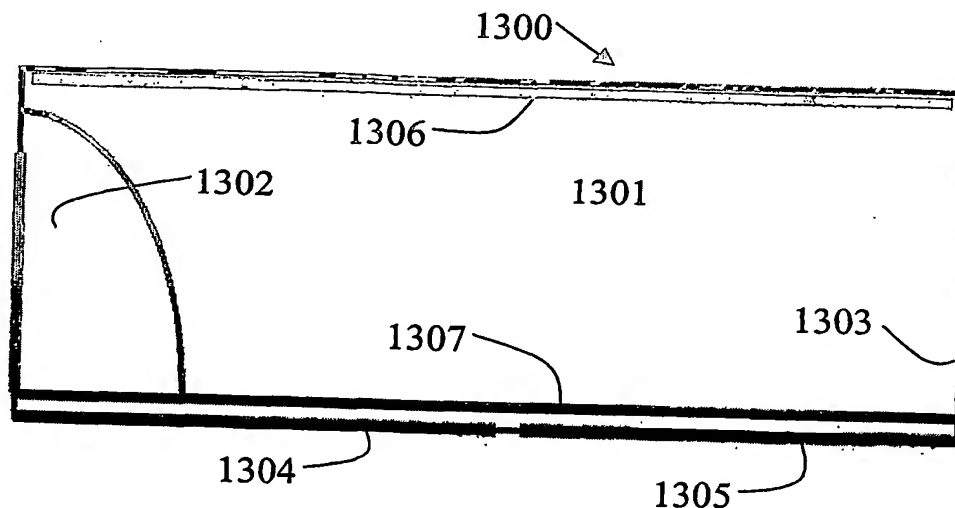
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(54) Title: A PASSIVE MATRIX DISPLAY WITH BISTABLE ELECTRO-WETTING CELLS



(57) Abstract: A display unit comprising electro-wetting pixels (1300) is provided. The inventive pixels (1300) provide bistable or multi-stable pixel states and thus facilitates passive matrix addressing. For this purpose an additional electrode (1305) is arranged for each multi-stable state. Consequently, each pixel comprises one counter electrode (1306) and at least one pair of address and retain electrodes (1304, 1305). In order to activate a pixel, an address potential is applied to the address and retain electrodes (1304, 1305) in relation to the counter electrode (1306), and in order to deactivate a pixel the potential is removed. In order to retain a current pixel state a retain potential is applied to only the retain electrode (1305) in relation to the counter electrode (1306); the current pixel state, be it active or passive, will then be preserved and the retain potential configuration thus provides a bistable pixel state.

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